

Fig. 1 Diagram of the cassette for seed-specific expression of the scFV gene

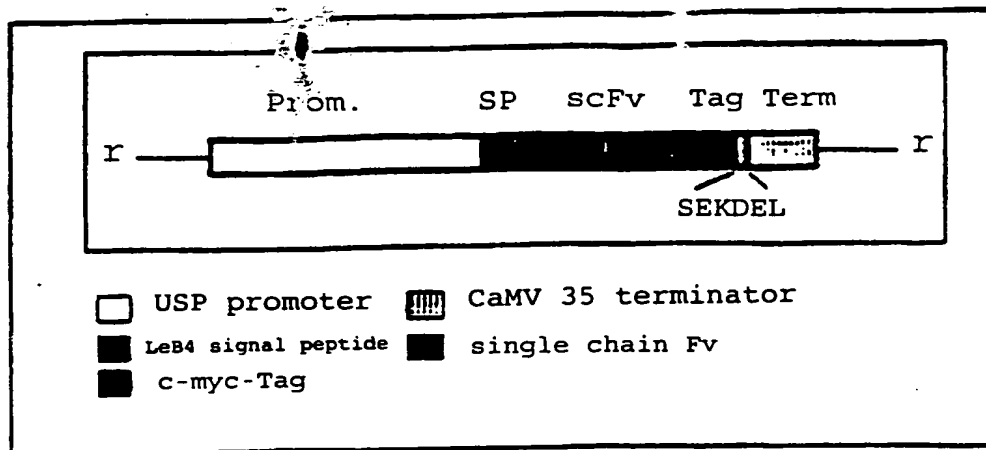


Fig. 2 Diagram of the cassette for expressing the scFv gene in the leaves of transgenic tobacco plants.

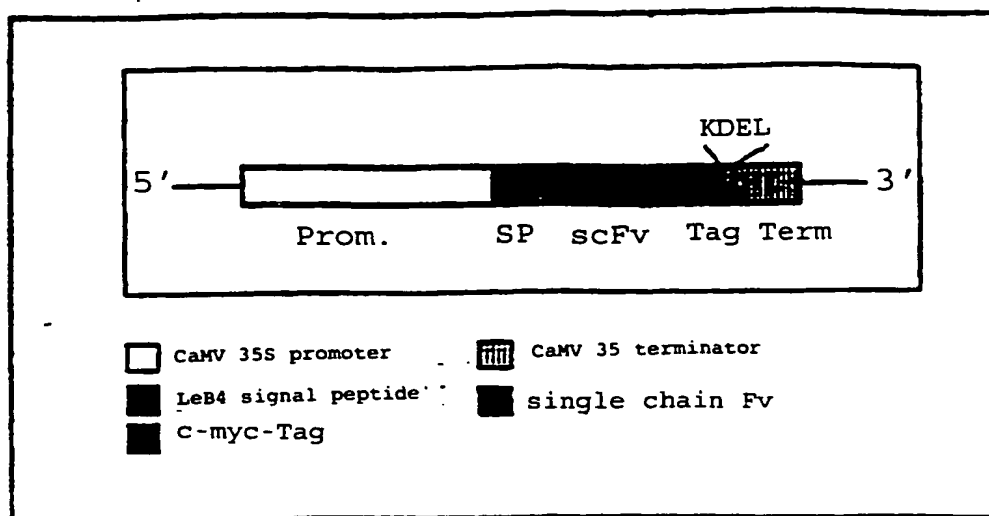


Fig.3 Diagram of the construction of the scFv-antiBAS 490F (V gene for V (variable region, L linker).

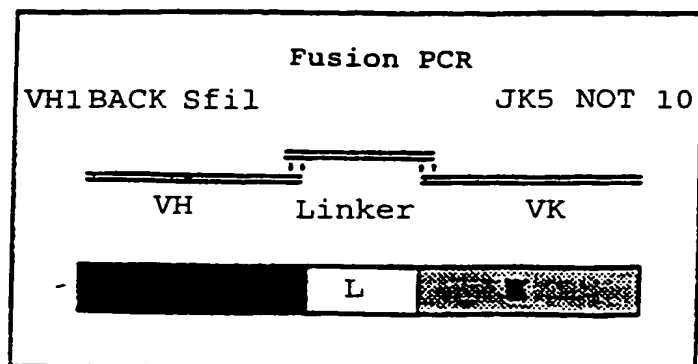


Fig. 4 Functional characterization of the scFv-antiBAS 490F in the direct ELISA.

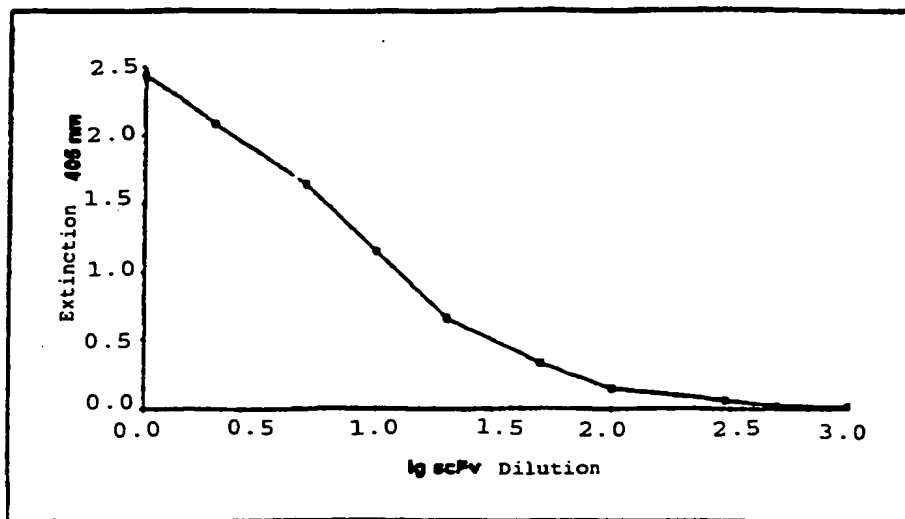


Fig. 5 Diagram of the cassette for seed-specific expression of the scFv-antiBAS 490F gene.

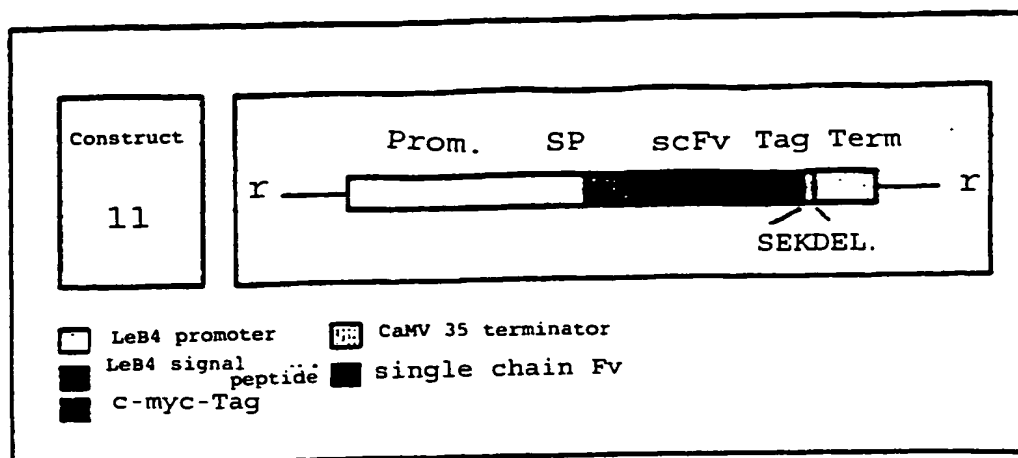


Fig. 6 Detection of existing antigen binding activity of the antibody fragment scFv-anti-BAS 490F in leaves after (drying, or lyophilization) using ELISA assays. Fig. 6 A shows antigen binding activity of the scFv-anti-BAS 490F polypeptide from fresh (1), lyophilized (2) and dried (3) leaves. Fig. 6 B shows the respective amounts of scFv-anti-BAS 490F protein (approximately 100 ng), used for the ELISA analyses, determined by western blot analyses. The sizes of the protein molecular weight standards are shown on the left.

